PrepAnywhere

Using A.I. to teach advanced math

PrepBox

Investor Presentation

We’re not teaching math right

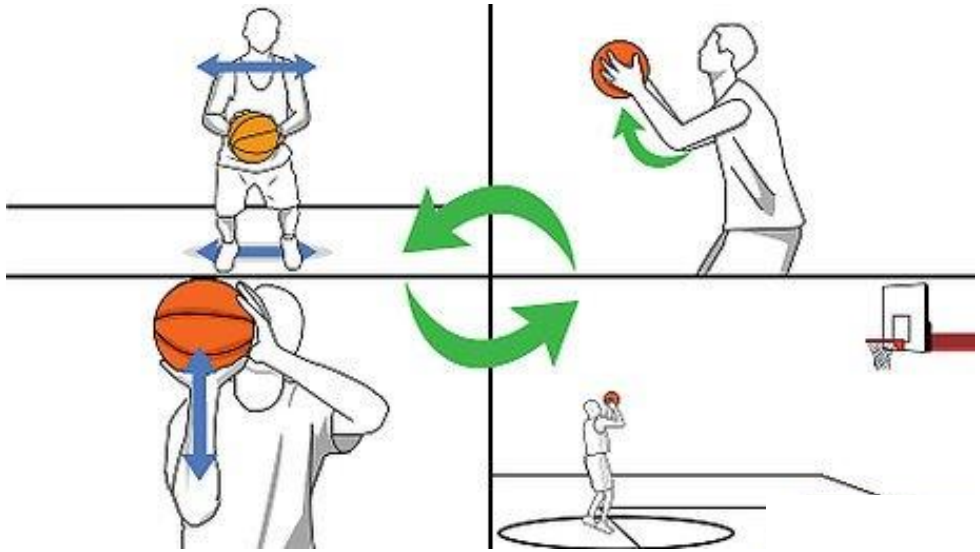
When it comes to math, we are obsessed with getting the answer right vs. learning

This is how we would teach basketball if it was math

“You keep missing baskets... You must not be good at basketball.

We’ll just put you into an easier league”

…when this is what we need



“**Keep practicing.** Never let someone tell you you’re too small or too slow”

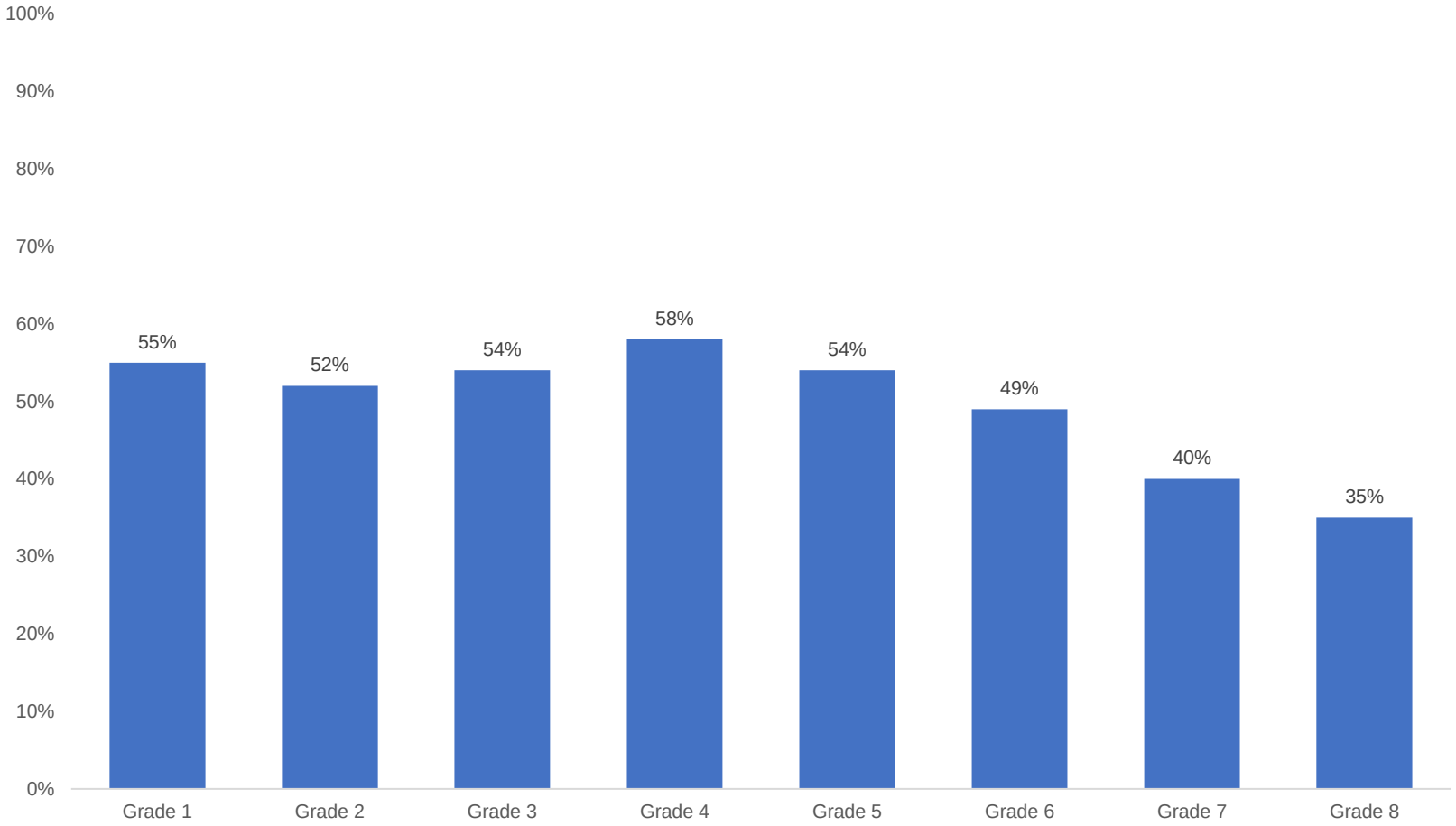
– Chris Paul

Source: wikiHow

The horrific result

Entire generations are behind and suffer from math anxiety

% of American Students on Grade Level in Math



93% *of Americans indicate that they experience some level of math anxiety*

Add to this:

- ***Public schools are underfunded***
- ***Tutors are unaffordable***

And the crisis is likely to continue

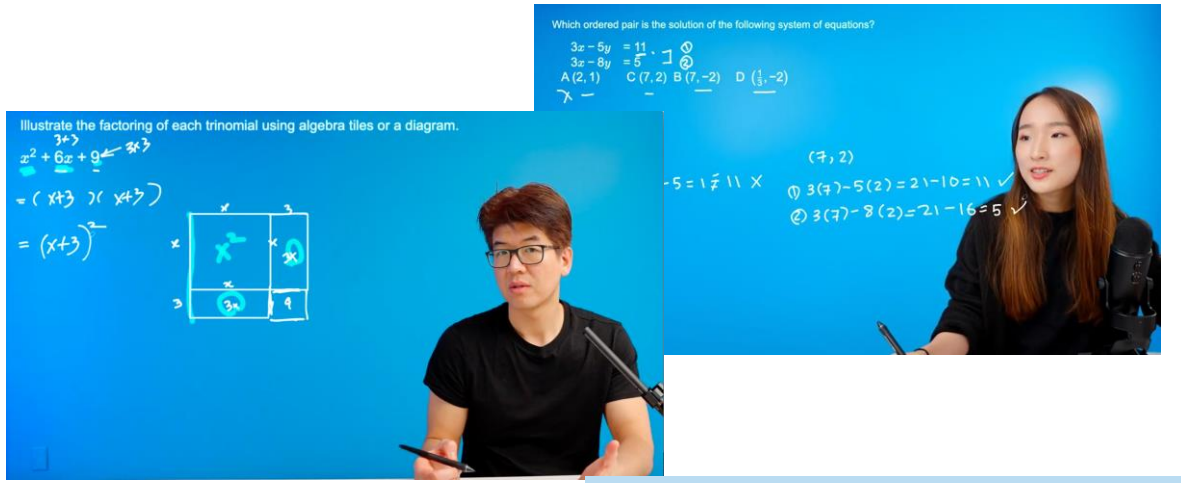
Source: Curriculum Associates, Institute for Educational Sciences and Educational Research

Our solution: PrepBox, learn by doing

We have developed and launched the only interactive iPad platform that breaks down the learning journey for advanced math into short 10-20m iterations of lectures and questions or what we call *learning by doing*

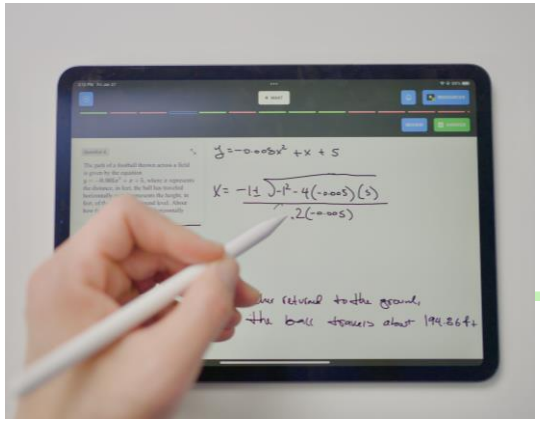
The Learning

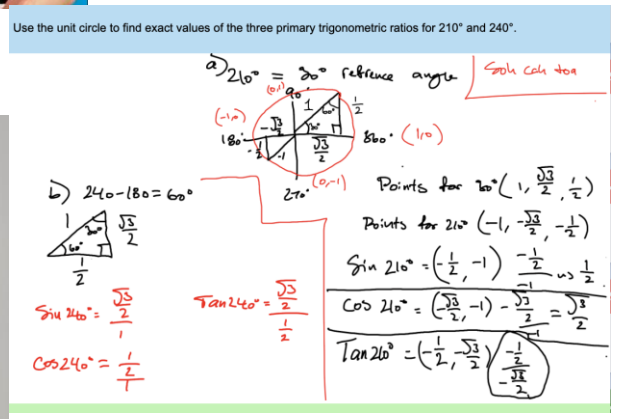
- 100k+ proprietary lecture videos from algebra to calculus
- Platform that enables tutoring with 1-on-1 feel
- Solution videos with A.I.-generated similar questions



The Doing

- White-board to solve problems
- Submissions **must show proof of work**
- Every **~10m lecture is followed immediately by questions**





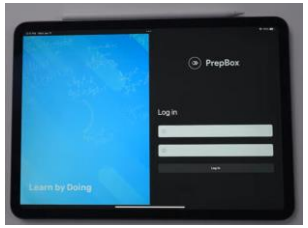
[Watch our demo]

The product: the student's perspective

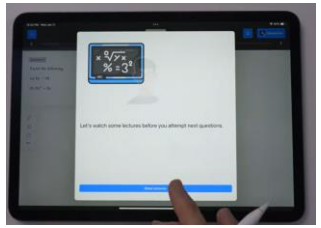
Our app breaks down lessons into smaller concepts and enables students to move at their own pace, dramatically improving engagement while we collect the necessary data to build out our Tutor A.I.

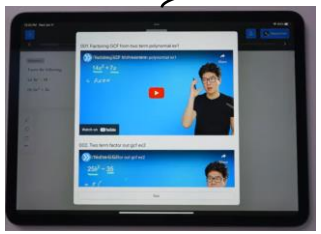
Student journey if not stuck

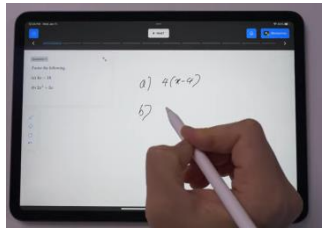
This cycle repeats in 20-30m intervals

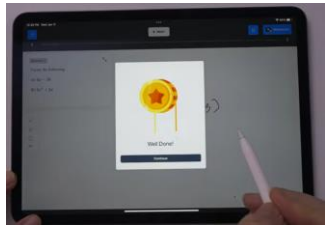


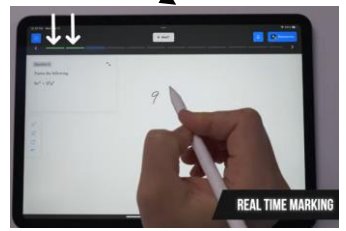
Login


Begin session


Watch lectures (10-15m)

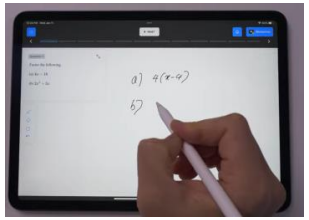

Solve questions (10-15m)

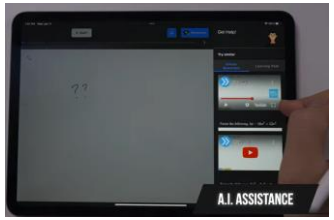

Submit solutions



Get them marked

Student journey if stuck and A.I. is sufficient

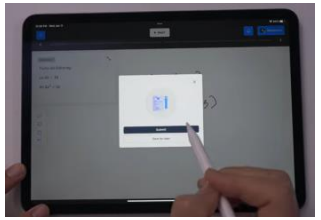

Stuck?



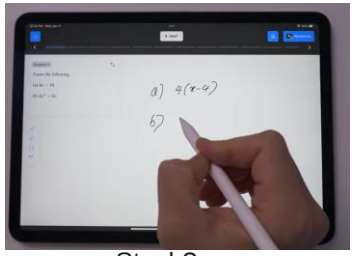
Watch similar q. solutions

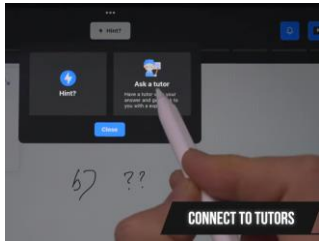
Watch relevant lectures

Watch hint videos


Submit for marking

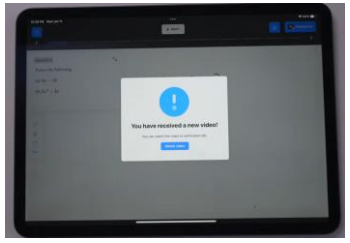
Student journey if stuck and tutor is required


Stuck?

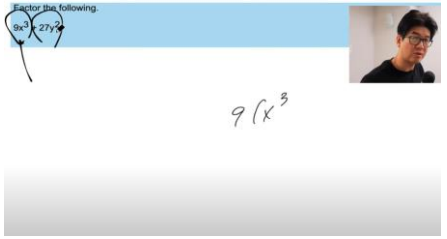


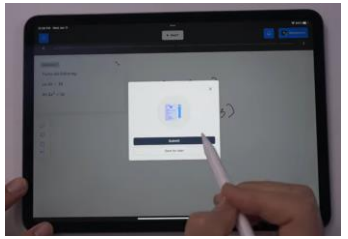
Ask tutor's help


Tutor sees the request



Tutor sends video


Watch video

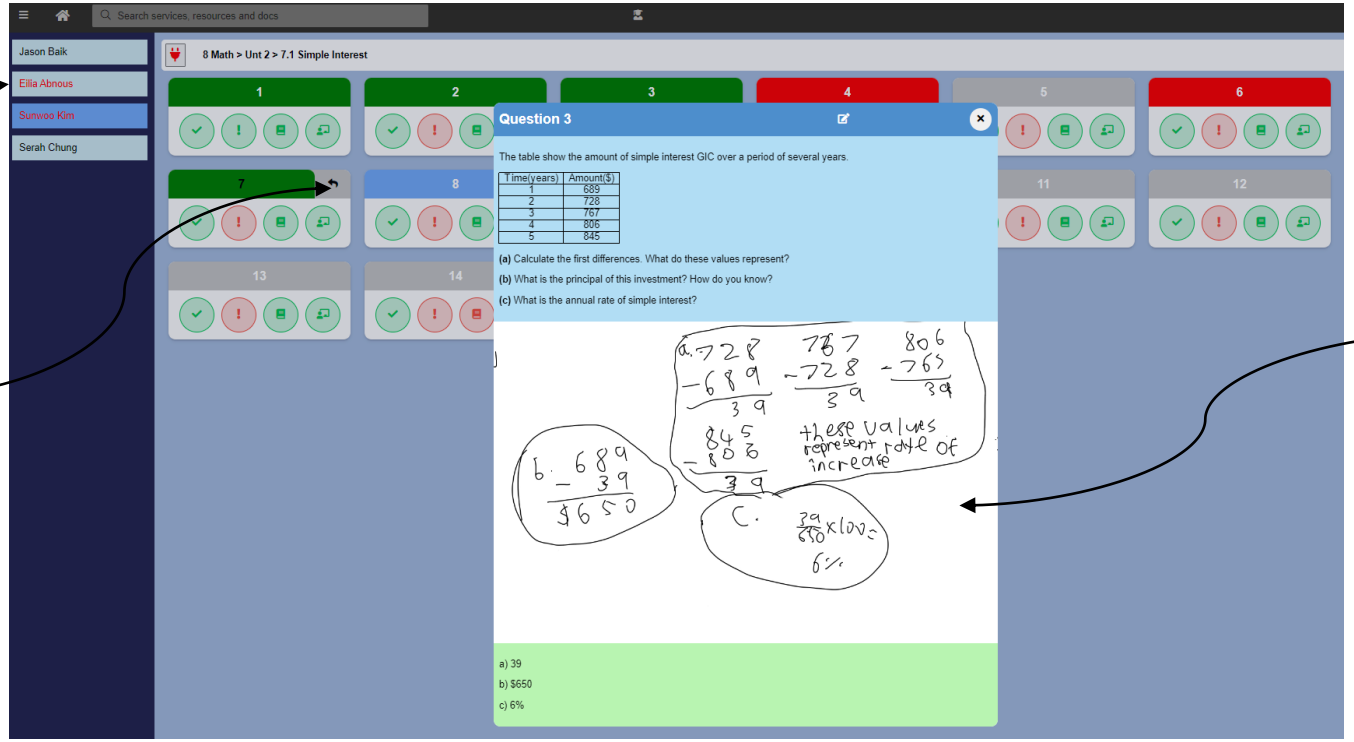

Submit for marking

The product: the tutor's perspective

On our platform, the best tutors are able to teach 10x their maximum capacity, as A.I. recommendation engine and coursework design allow them to focus 100% on providing guidance to students who are stuck

Student requesting help flashes red

Clicking on the question opens up the student whiteboard

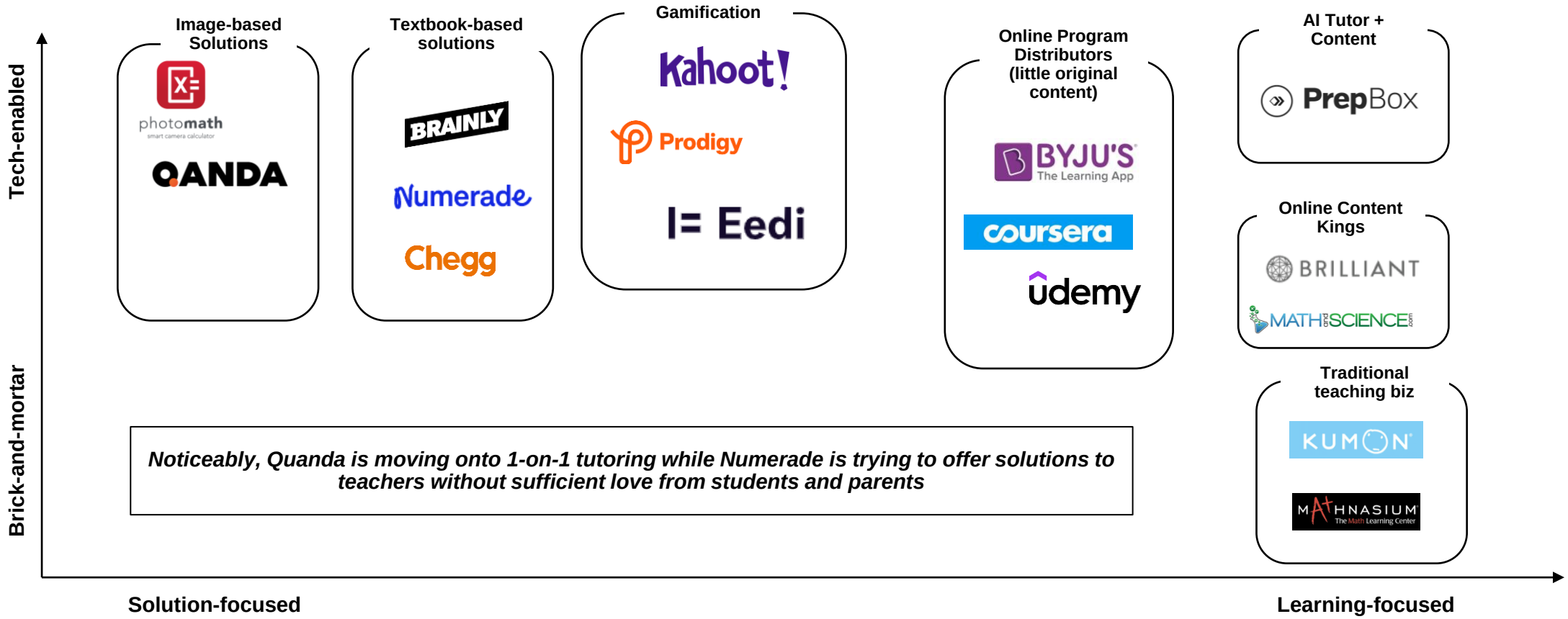


Real-time view of the student whiteboard enables quality feedback

To be refined after improvements

Why are we going to win in the market?

We are the only company that is providing a holistic solution to math learning that is AI-enabled -we know from experience that effective teaching requires more than quality content and slick tech



Source: Company websites

Why are we different?

Much of B2C edtech development has focused on getting *answers* to students vs. developing a scalable holistic learning platform enabled by A.I.

We are the first and only B2C math edtech company where education outcome drives our product development

		Numerade	Chegg	photomath	Eedi	QANDA	PrepBox
	Founded	2018	2005	2014	2015	2015	2017
The learning	Tried-and-tested lectures	◑	○	○	○	○	●
	Guidance from an experienced tutor	◔	◔	◑	◑	◕	●
	Problems with hints & solutions	◕	●	◕	◕	◔	●
The doing	Whiteboard for problem-solving	○	○	○	○ (All multiple choice)	●	●
	Personalized Coursework	○	○	○	◔	◑ (determined by tutor)	●
	Scalable Tutoring Platform (1-on-20)	○	○	○	○	○	●
	Solely math-focused	○	○	●	●	○	●
	Data capture for A.I. Tutor Development	○	○	◑	◔	◔	●

Source: Company websites

State of our A.I.

We have already integrated A.I. into our product, and are ultimately looking to create a math tutor A.I. that is indistinguishable from the best tutors using longitudinal student data we're collecting on PrepBox

	Description	Type	Dataset	Status
Content & curriculum recommendation	A.I. recommends similar questions and related videos to aid the student's journey, and generates "Mastery" for questions students got wrong to enable review	Supervised learning	Videos and question recommendations and their quality rated by Min and other tutors	Implemented
A.I. Grading	Image recognition to translate student submission into LaTeX to grade	Supervised learning	Currently reliant on Mathpix but can develop in-house	Implemented
A.I. Tutor	Based on the test and admission outcomes of thousands of students, the A.I. makes recommendations on what areas to improve, nudge students with text, and what boosts performance, effectively becoming a tutor	Unsupervised learning	Thousands of PrepBox student data on their speed, accuracy, and their interactions on PrepBox matched against their academic performance	**Under development**

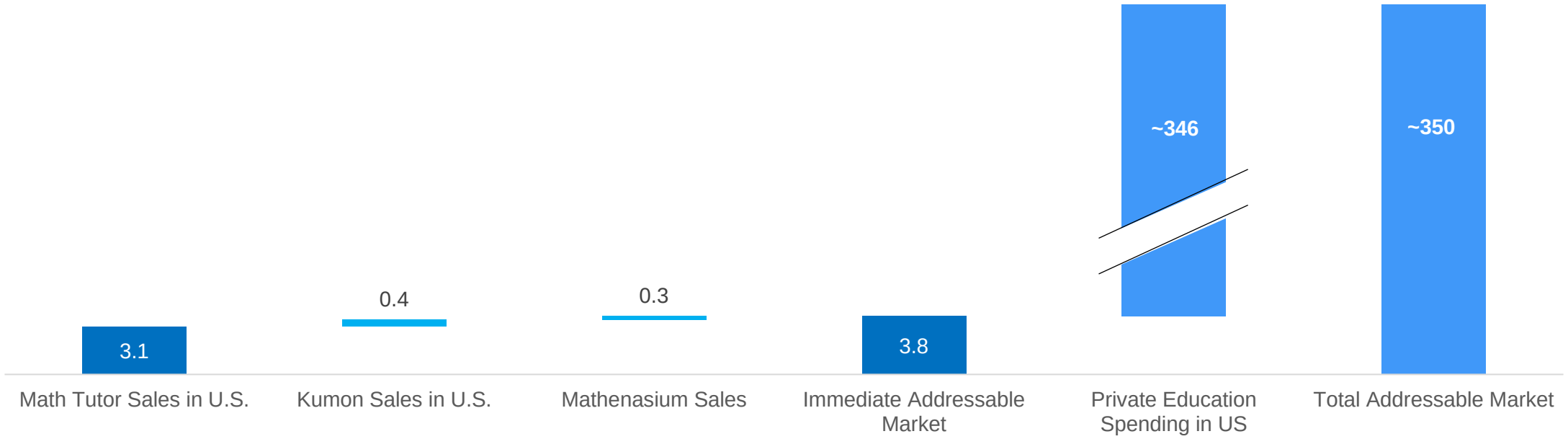
Our "holy grail"

Addressable Market

Immediate addressable market of ~$4bn and a larger addressable market >$350bn just in the U.S. alone

Estimated math-tutor spending in the United States (2019)

(US$bn)



Source: U.S. Bureau of Labor, OECD, company reports, news clippings

Our Master Plan

You are joining us at the most exciting juncture in our long journey to solve the world's math learning loss with A.I.